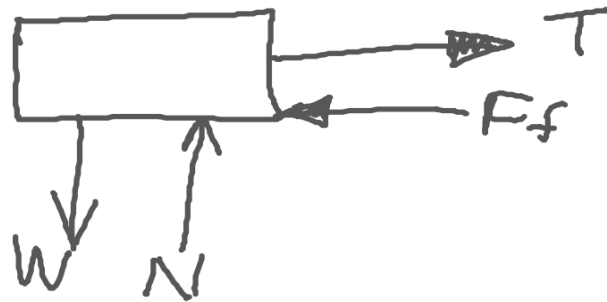
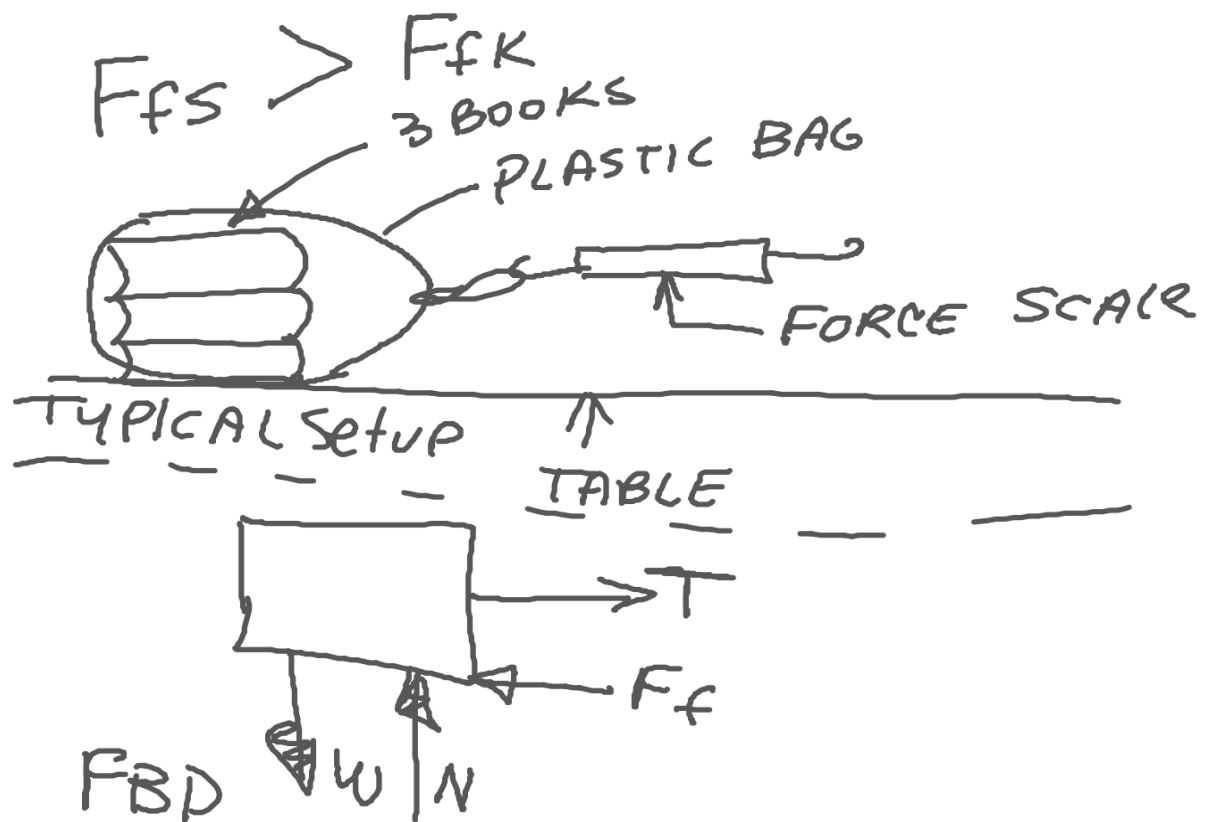


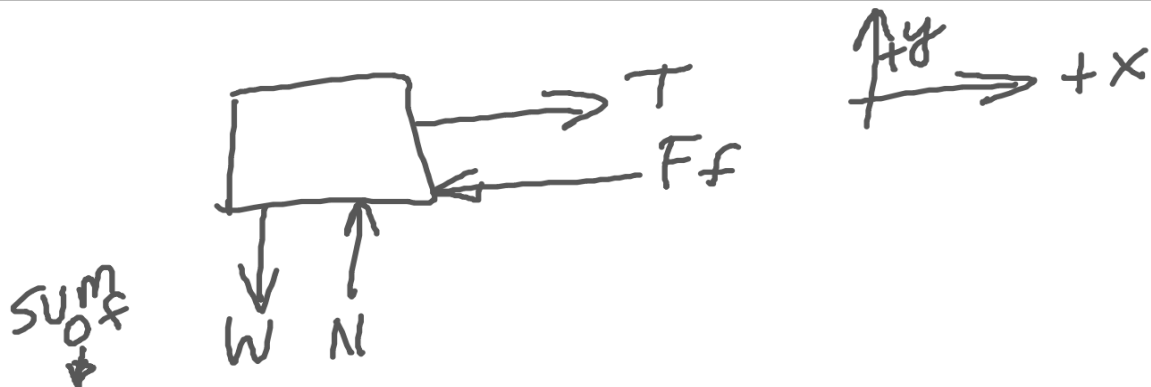
$F_f$  = FRICTION FORCE  
→ motion



STATIC FRICTION FORCE  $F_{fs}$   
FORCE NEEDED to get something  
MOVING FROM STANDSTILL

KINETIC FRICTION FORCE  $F_{fk}$   
FORCE NEEDED to keep something  
MOVING





$$\sum F_x = T - F_f = 0; T = F_f$$

$$\sum F_y = -W + N = 0; N = W$$

$$N = ? \quad N = W = mg = (1.82 \text{ kg})(9.8 \text{ m/s}^2) = 17.84 \text{ N}$$

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	NORMAL FORCE (N)
A	53.52
B	35.68
C	17.84
D	17.84
E	17.84
F	17.84
G	17.84